

DonadonSDD SCD rupture discs



Model	SCD
Materials	Stainless steel, Alloy 201, Alloy 400, Alloy 600, Alloy 625, Alloy C276, Titanium
Dimensions	DN 1"(25) – DN 36"(900)
Rupture pressure	2 bar g (30 psi g) - 413 bar g (6000 psi g) (depending on material and diameter)
KR _{g1}	1.33
Tolerance	from +/- 5 % to +/- 20%
Operating temperature	From – 196°C up to 600°C
Operating margin	up to 85%
Fragmentation	No
Use under valve	Yes
Corrosion resistance	Very good
Linings	Yes
Container	<u>HI/A, HI/P, HI/F, HTC</u>
Rupture sensor	<u>Electrical, Magnetic, Inductive, Optical</u>
ASME Certification [UD STAMP]	Available
PED Certification [CE STAMP]	Available
ATEX EX II 2 GD Certification	Available

DonadonSDD SCD Rupture discs obtained with [NS Nanoscored technology](#) are discs with micro-scored calibrated sections opening in petals, characterised by the presence of 4, 6 or more radial scoring.

This allows for better opening reducing the risk of petal detachment. This makes DonadonSDD SCD rupture discs especially suitable at high bursting pressure. They are used with gas and liquids also in cycling and pulsating conditions without reduction of safety margins.

SCD discs react to excessive pressure in a few milliseconds without fragmentation.

They are especially suited for protection of pressure relief valves. DonadonSDD SCD rupture discs allow for a ratio between operating and bursting pressure up to 85% and have a very good resistance to corrosion. Corrosion resistance may be additionally improved with PTFE lining.

In addition, SCD discs can, in many cases, be subject to absolute vacuum conditions without need for supports.